

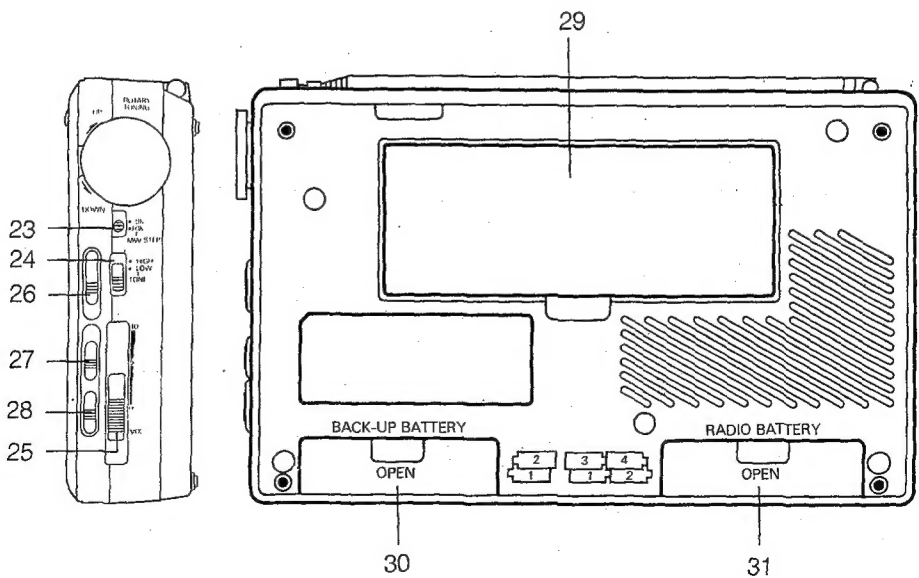
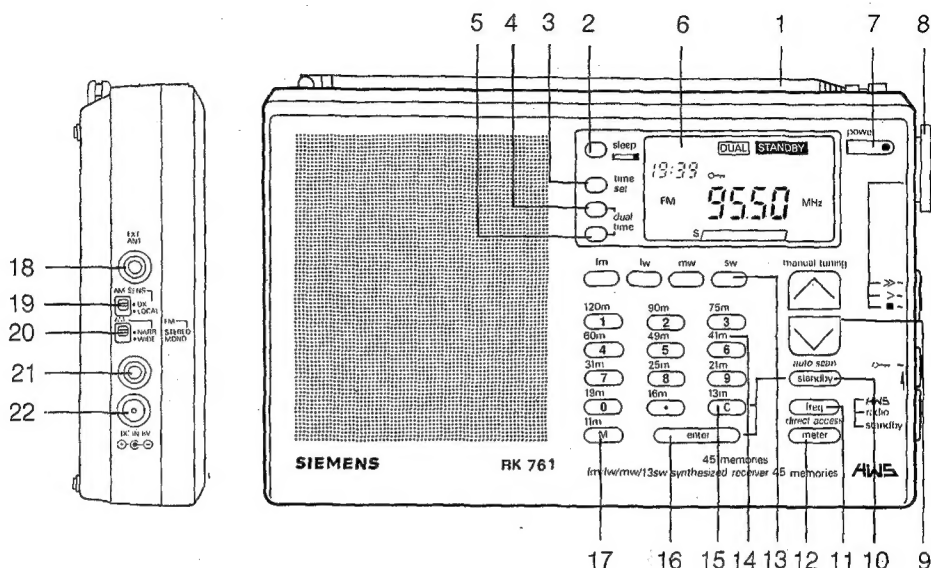
SIEMENS

RK 761

Operating Instructions

Weltempfänger
World Band Receiver





Features

Continuous Tuning permits reception of more stations than ever before without any break on LW, MW or SW band.

Fast response, Three Color LCD indicates station frequency in large easy-to-read numbers, including dual time, memory location, signal strength and battery life.

Direct Access Keypad permits instant tuning of any desired frequency from 87.5 MHz to 108 MHz on the FM band and from 150 kHz to 29999 kHz on the AM band.

Forty-Five Memory Pre-sets offer instant access to your favorite stations on LW, MW, FM and SW.

AC/DC Power Supplies for use virtually anywhere in the world.

Supplemental Tuning Controls allow for maximum clarity of the selected frequency.

Dual Time Setting allows you to pre-set your local time and UTC World Time*, or any two time zones with instant recall.

Scanning Circuit permits you to check various frequencies on a certain band-width and lock on to it at random.

Correction Button allows you to instantly change incorrect information keyed into the microprocessor.

Band Select Buttons offer instant selection of any desired frequency bandwidth on SW.

Tuning Speed Selector Switch permits you to tune stations at either a fast or slow speed.

Sixty Minute Sleep Timer allows you to fall asleep to music or other programming.

Standby Mode turns on the radio automatically at a pre-set time either by buzzer or radio program.

Stereo headphone Jack permits reception of FM multiplex stereo broadcasts.

Folding Stand allows you to position the radio either vertically or at an angle while maintaining stability.

*UTC = Universel Time Coordinated.

Control Locations

1. Telescopic Antenna
2. Sleep Timer
3. Time Set
4. Dual Time Button
5. Dual Time Set
6. LCD Display
7. Power On/Off Button
8. Rotary Tuning Knob
9. Manual Tuning/Auto Scan Buttons (A) (V)
10. Standby Button
11. Frequency Select Button
12. Meter Select Button
13. Band Selectors
14. Numeric & Bandwidth Buttons
15. Error Correct Button
16. Enter Command Button
17. Memory Entry Button
18. External Antenna Jack
19. DX/Local Switch (AM Sensitivity)
20. FM Stereo/Mono Mode Selector; AM Narrow/Wide Mode Selector
21. Stereo Headphone Jack
22. DC Input Jack/6 Volts
23. 9 kHz/10 kHz Step Switch
24. High/Low Tone Switch
25. Volume Control
26. Tuning Speed Control
27. Lock Switch
28. Alarm Set Selector
29. Prop-up support
30. Back-up battery compartment*
31. Radio battery compartment (main batteries for radio unit) 4x1.5 V miniatures

redundant; the new storage system has made the batteries superfluous.

Choosing a Power Supply

You can operate the RK 761 using:

- Six Alkaline AA Batteries.
- Household AC (With AC adaptor)
- 12 Volt DC Automobile Battery (With Optional DC adaptor)

Using Batteries

1. Press latch marked **open** on both battery compartment covers in the direction of the arrow and lift off cover.
2. Insert 4 AA batteries in the RADIO compartment and 2 AA batteries in the Back-up compartment. Be sure to position them as illustrated on the back of the radio, and on top of the lift-out ribbons for easy removal.
3. Replace both battery compartment covers over their respective compartments and press down until you hear it snap closed.

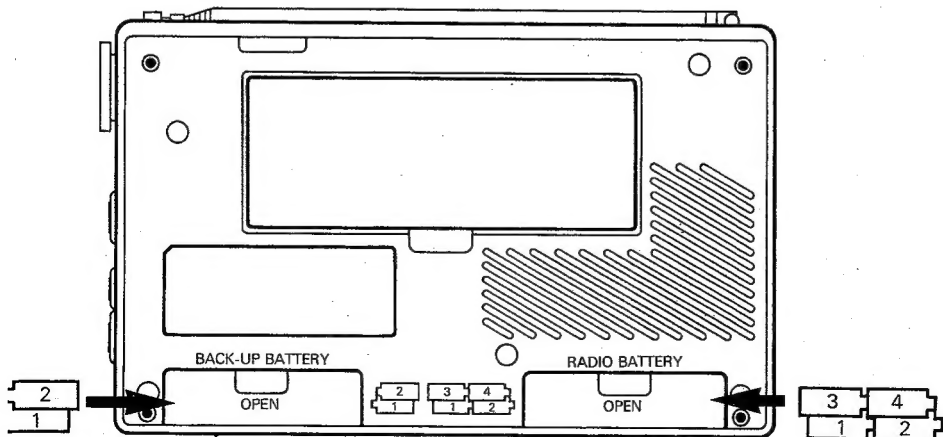
Note:

Whenever the radio is turned off, the battery indicator will flash for about five seconds to show battery condition.

If the indicator falls below 1/2, the 4 MAIN AA batteries should be replaced.

When the MAIN batteries become exhausted, the micro-processor will automatically be powered by the BACK-UP batteries.

When the display on the micro-processor begins to fade, replace the 2 AA batteries in the BACK-UP circuit. Before you replace these batteries in the MAIN circuit to prevent total memory loss.



Using House Current (AC)

The set can be connected to the a.c. mains supply using a standard 6V power supply unit. Insert the small barrel shaped plug into the jack on the side of the radio marked **DC IN 6 V**. Plug the other end of the adaptor into a standard household outlet. Whenever AC is used, the batteries are automatically disconnected.

Using an Automobile Battery

The RK 661 is capable of operating from a car, boat or recreational vehicle equipped with a 12 volt DC negative ground battery using a DC cigarette lighter adaptor. Insert the adaptor plug into the jack marked, **DC IN 6V** on the side of the RK 761 and the other end into the lighter of the vehicle.

Note:

When the DC cigarette lighter adaptor is connected to the radio, the internal battery supply is automatically disconnected.

Caution:

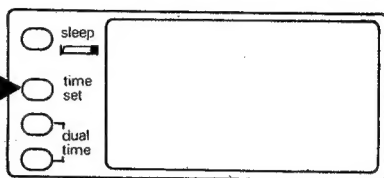
Make sure that the barrel plug on the adaptor never comes in contact with any metal parts of the vehicle or boat! A short circuit can occur that may damage the adaptor or the electrical system.

Preliminary Settings

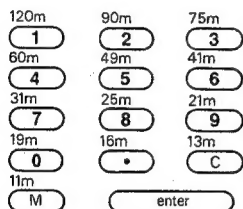
Setting the Clock

The time is displayed in the 24 hour mode since most shortwave stations operate according to Greenwich Mean Time. This is the standard that is used throughout the world.

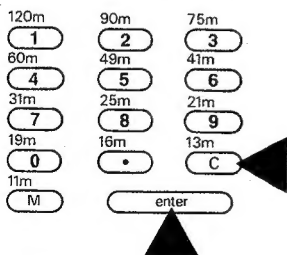
The clock will start when 4 AA batteries are installed. The display shows 0:00.



1. Press **time set**. „0:00” disappears & for 12 seconds **time set** flashes.
2. While FLASHING set the correct time by pressing the numbered buttons. As you press the corresponding button the number shows up on the LCD display.



3. If you press the wrong number, press the **C (CORRECT)** button which deletes one number at a time. Repeat step 2 again.



Note:

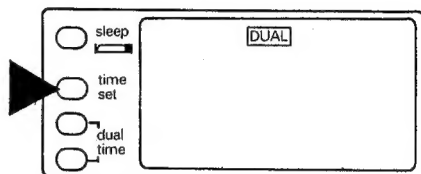
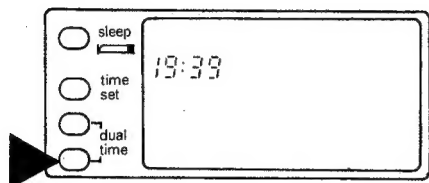
Time can only be adjusted when **time set** is in flashing mode.

4. Now press button marked **enter**. Display shows minutes and seconds.

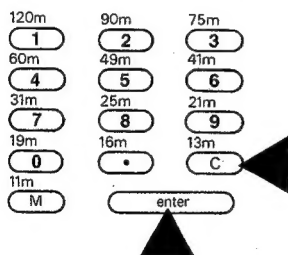
Setting Dual Time

A second time zone can be programmed into the RK 661 such as your home time if you are travelling, or Greenwich Mean Time for instant access to short-wave broadcasts or the local time where ever you may be.

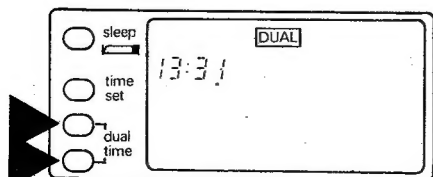
1. Press lower **dual time** button and the display will show **dual**.
2. Press **time set** button. Clock time will disappear & **time set** will flash for 12 seconds.
3. While FLASHING set the correct time by pressing the numbered buttons. As you press the corresponding button the number shows up on the LCD display.



4. If you press the wrong number, press the **C (CORRECT)** button which deletes one number at a time. Repeat step 3 again.
5. Now press button marked **enter**. Display shows minutes and seconds.

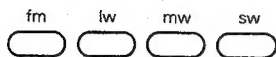


6. By pressing the lower **dual time** button now, the LCD display will once again show the clock time.
7. To verify **dual time**, press the upper **dual time** button to display your OTHER time zone. When you release the button the clock will show your current local time.



Band Selection

There are four band selector buttons located just beneath the LCD display.



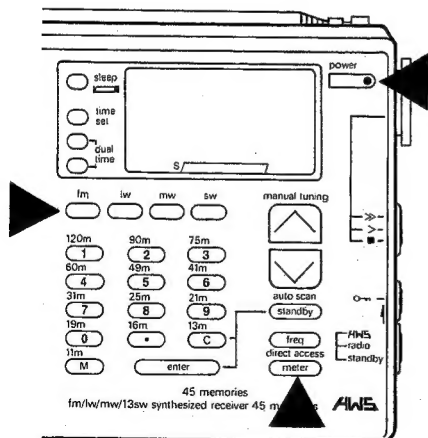
Band	Frequency Range	Program Type
FM	87,5 - 108 MHz	Standard FM
LW	150 - 519 kHz	Longwave
MW	520 - 1620 kHz	Standard AM
SW	1621 - 29999 kHz	SW/13 Sub-Bands

The AM ranges are continuously tunable from 150 kHz to 29999 kHz.

1. Turn radio on by pressing **power** button. Display will show last band and frequency selected.
2. By pressing any one of the four band selector buttons the display shows the band selected and a random frequency within that band.

Note:

When you select SW you only have to press the button marked **meter**, and then any one of the numbered buttons depending upon what band you want to listen to. The display will show the band you selected and a random frequency within that band.



You may select any frequency using four different tuning methods:

- Direct Tuning
- Manual Tuning
- Scan Tuning
- Memory Tuning

Direct Tuning

You may **KEY IN** a specific band (120m, 49m, 16m) by pressing the appropriate button. The exact station is then selected by pressing the buttons corresponding to the station frequency.

Example:

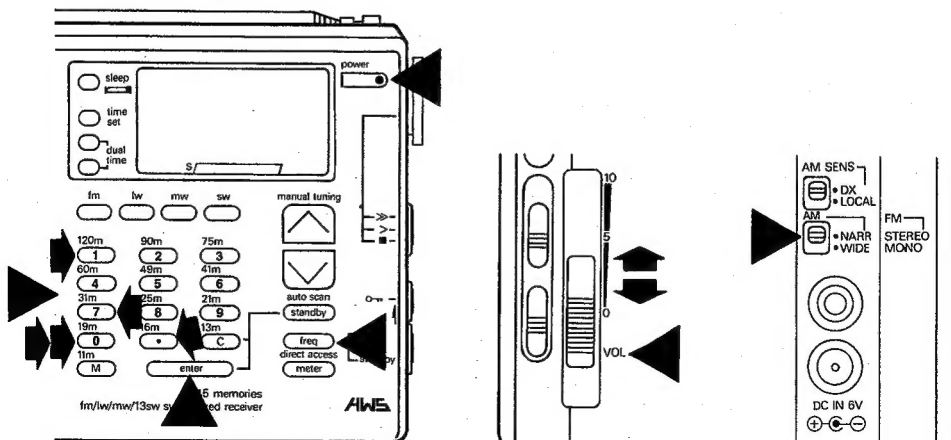
To tune 100.70 MHz on the FM band, follow this procedure:

1. Press the **power** button to turn on the radio.
2. Press the button marked, **freq** (Frequency).
3. Press the corresponding buttons, marked (1), (0), (0), (.), (7), (0). That exact frequency will now show up in the display.
4. Press the button marked **enter** within twelve seconds. The frequency and band will now show up in the display. The **SIGNAL STRENGTH** will also show.

Note:

Be sure to press the decimal point (.) in 100.70 MHz, otherwise the display will show **sw**, (10070 kHz) automatically.

5. Extend the antenna all the way and rotate for best FM reception.
6. Adjust the **VOLUME** and **TONE** controls for the desired sound.
7. When selecting a stereo FM station, make sure that the FM mode switch is in the **STEREO** position.



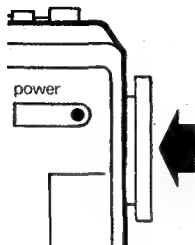
Manual Tuning

To select a station you do not know the frequency of, use the **manual tuning** (Λ) (V) buttons or the **ROTARY TUNING** control on the side of the radio.

manual tuning

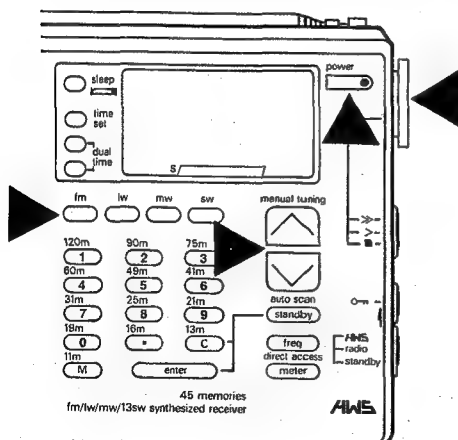


auto scan



1. Press the **power** button to turn on radio.
2. Select a band.
3. Press repeatedly the (Λ) or (V) buttons to reach a desired frequency. Press and hold the (Λ) or (V) buttons for at least a half second or more to change frequencies rapidly.

Rotate the **TUNING** knob until the desired frequency or station is tuned in using the **SIGNAL STRENGTH INDICATOR** in the display for the best reception.



Note:

When you repeatedly press the (Λ) or (V) buttons, the frequencies change in increments of:

FM:	50 kHz
LW:	9 kHz
MW:	9 kHz or 10 kHz
SW:	5 kHz

Turning the **ROTARY TUNING** Knob with the **TUNING SPEED CONTROL** set on **FAST** will change each band as follows:

FM: 100 kHz
 LW: 9 kHz
 MW: 9 kHz/10 kHz
 SW: 5 kHz

When set on **SLOW**, the frequencies change as follows:

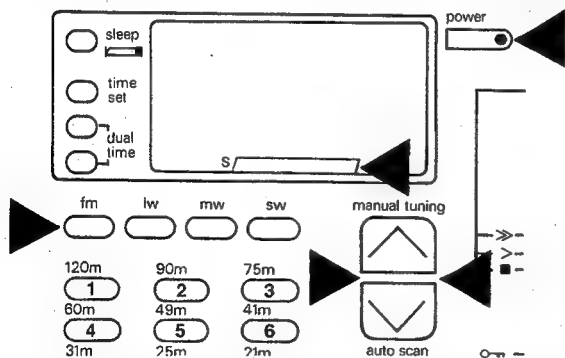
FM: 50 kHz
 LW: 1 kHz
 MW: 1 kHz
 SW: 1 kHz

With the **TUNING SPEED CONTROL** set on **LOCK**, **ROTARY TUNING** will not function.

Scan Tuning

Use scan tuning to quickly locate a station or to monitor several stations within a specific band.

1. Turn on radio by pressing **power** button.
2. Select a band.
3. Adjust antenna or radio position depending on selected band.
4. Press and hold the (\wedge) or (\vee) buttons and the radio will scan all the frequencies in that band, and will stop automatically each time it lands on an active station. Signal strength is recorded on the **SIGNAL STRENGTH INDICATOR**.



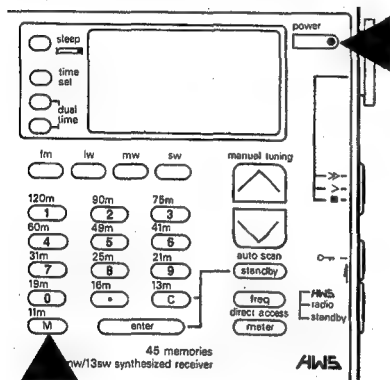
5. Press and hold the (\wedge) or (\vee) buttons again to resume scanning. When you reach the upper or lower limits of the band, the scanning starts all over again as long as the button is depressed.

Memory Tuning

You may store up to eighteen different frequencies on the SW band and up to nine different frequencies on each of the other bands for instant selection of your favorite stations.

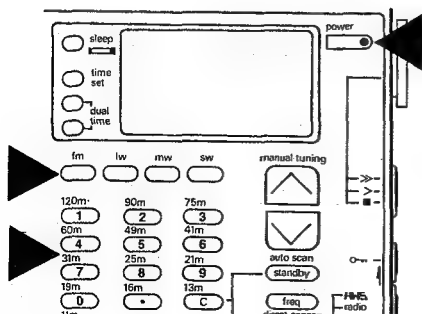
Storing a Frequency

1. Press **power** button to turn on radio.
2. Turn to any frequency using any of the previously mentioned tuning methods.
3. Press the button marked **M** for **MEMORY**. It will start flashing in the display for 15 seconds during which time press any of the buttons marked 1 - 9 on the keyboard and your station will be stored in that memory position. For the SW band frequencies press 1 - 9 and then 01 - 09 for a total of 18 SW memory positions. The display will show the memory position the station is now stored in. **You may store your stations in any sequence you want. You do not have to start with 1.**



Recalling a Frequency

1. Press **power** button to turn on radio.
2. Select a band in which a station is stored that you want to recall.
3. Press any of the NUMBERED buttons for a desired station and the radio will instantly tune to it and display that frequency and the **MEMORY** position number. **If you want to change to another stored station, just press any other numbered button for access.**

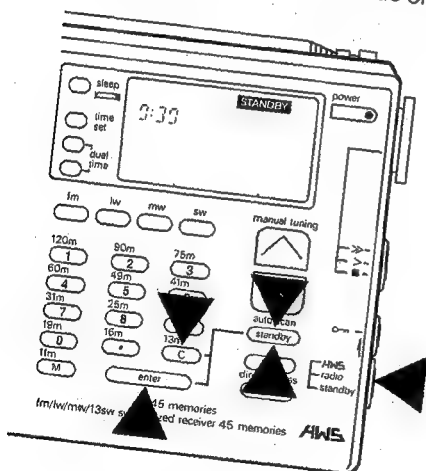


Clock Radio Operation

With the RK 761 you can fall asleep to your favorite station by pressing the **sleep** button, or wake you to the morning news, or an alarm buzzer. **Make the following settings with the power off!**

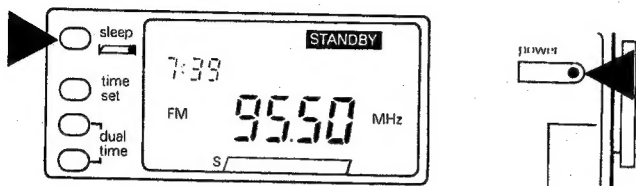
Setting the Alarm

1. Press **standby** button so display shows 0:00. **standby** will flash for 15 seconds.
2. Press the numbered buttons to activate turn-on time using 24 hour time, in hours and minutes. For example, to set the radio to turn on at 1:30 PM each day, press the buttons until the display shows 13:30. **If the wrong number was keyed-in, delete it by pressing the CORRECTION button marked C. One time for each number. Then press the correct number for the time you want.**
3. When you reach your desired turn-on time, press **enter**. **standby** stops flashing (after approximately 3 seconds) your turn-on time is locked in and the clock returns to the current time.
4. To verify, press **standby** button again. Press **standby** once more and the clock returns to the current time.
5. You may select radio or buzzer alarm to wake you by setting **standby : HWS/ radio** selector switch on the side of the radio.



Setting the Sleep Timer

1. Press **sleep** button. The icon shows above the frequency read-out in the display. That's all there is to it.
2. To turn off the radio before it automatically turns itself off, press the **power** button.



Special Tuning Methods and Controls

In addition to the standard tuning methods described previously, use the following controls for special operations.

AM Sensitivity: Distance/Local Selectivity Switch

This switch adjusts the receiver's sensitivity. When you listen to a strong station and the signal is slightly distorted, set the switch to the **LOCAL** position for best reception. For normal or weak station, set the switch to the **DX** position for maximum sensitivity.



AM: Narrow/Wide Selectivity Switch

To reduce interference from adjacent station, set this switch to the **NARR** position and the interference will be suppressed. For maximum selectivity, leave the switch in the **WIDE** position.



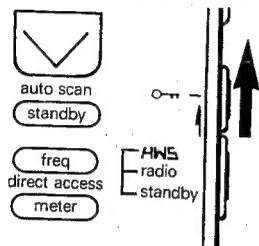
Headphone Use

While not a control, you may consider using **HEADPHONES** to obtain the best audio clarity when listening to SW. Since many SW stations broadcast only marginal signals, using **HEADPHONES** will enable you to distinguish between the signal and the noise usually encountered at night. Be sure that the **HEADPHONES** terminate in a 1/8 inch plug, which is inserted into the **HEADPHONE** jack located on the left side of the radio. When the **HEADPHONES** are plugged in the speaker is muted.

Because the radio is capable of receiving FM multiplex stereo, the **HEADPHONES** should be stereo capable so that your listening enjoyment will be enhanced. When listening to stereo FM, be sure that the FM: **STEREO/MONO** switch is set to the **STEREO** position. This switch is located on the left-hand side of the radio, just above the **HEADPHONE** jack.

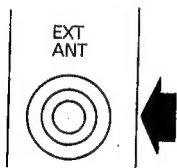
Lock Switch Use

Using the **LOCK** switch prevents unauthorized operation of the radio and will also prevent the station you are listening to from being changed. When the **LOCK** switch is moved to its up position, the **power** button and **tuning** controls are completely disabled. If the radio is on when the **LOCK** switch is moved to its up position, you will not be able to turn it off. If the radio is off, with the **LOCK** switch in its up position, you will not be able to turn it on. This will also prevent it from being turned on by accident, when packed in a suitcase or attache case. To release the **LOCK** switch, simply move the switch down.



External Antenna Use

To obtain optimum performance from your RK 661, especially when listening to SW or LW, an external antenna should be used, if at all possible. The antenna is connected to the **EXTERNAL ANTENNA ADAPTER** and then plugged into the **EXTERNAL ANTENNA** jack located on the left side of the radio.



MW Step Selector Switch

Located on the right side of the RK 661, just beneath the **ROTARY TUNING** knob is a switch marked, **MW STEP: 9K/10K**. This switch selects the incremental frequency **STEPS** for the **MW** band, depending upon your geographic location. In the USA, **10K STEPS** are used, so the switch should be set to its lowest position. In other parts of the world where they use **9K STEPS**, move the switch to the uppermost position.



Technical Data

Frequency range	FM (MHz)	87,5-108
	AM (kHz)	150-29999
	The AM ranges are continuously tunable from 150 kHz to 29999 kHz.	
	SW (MHz)	SW1 2,30-2495 (120-m-Band) SW2 3,20-3,40 (90-m-Band) SW3 3,90-4,00 (75-m-Band) SW4 4,75-5,06 (60-m-Band) SW5 5,95-6,20 (49-m-Band) SW6 7,10-7,30 (41-m-Band) SW7 9,50-9,90 (31-m-Band) SW8 11,65-12,05 (25-m-Band) SW9 13,60-13,80 (21-m-Band) SW10 15,10-15,60 (19-m-Band) SW11 17,55-17,90 (16-m-Band) SW12 21,45-21,85 (13-m-Band) SW13 25,67-26,10 (11-m-Band)
	MW (kHz)	520-1710
	LW (kHz)	150-519
max. output power (W)		0,5
Batteries (IEC)		4 x 1,5 V Mignon, R6 2 x 1,5 V Mignon, R6
External Power supply		6 V = (standard)
Size in cm (BxHxT)		19,6 x 12,5 x 3,6
Weight in g		620